Title (en)

Electric control device for a motor-driven derailleur for bicycles

Title (de)

Elektrisch gesteuerte Getriebe für die Steuerung eines Kettenräderwechselgetriebes eines Fahrrads

Title (fr)

Dispositif électrique pour la commande du dérailleur motorisé d'un cycle

Publication

EP 1264765 A1 20021211 (EN)

Application

EP 02012047 A 20020531

Priority

IT TO20010555 A 20010608

Abstract (en)

Electric control device for a motor-driven derailleur for bicycles, comprising: a supporting body (12) provided with means for fixing it to a handlebar (14) of a bicycle, a brake control lever (16) hinged to the supporting body (12), a pair of electric switches to control the gear change (24, 26) carried by the supporting body (12), and a gear change lever (38) that can be manually operated to control a first of said switches (24). The gear change lever (38) comprises a first part (40) connected to the supporting body (12) so as to consent shift of the gear change lever (38) between a position at rest and an operating position, and a second part (44) hinged to the first part (40). <IMAGE>

IPC 1-7 (main, further and additional classification)

B62M 25/08; B62M 25/04

IPC 8 full level (invention and additional information)

B62K 11/14 (2006.01); **B60K 20/02** (2006.01); **B62K 23/06** (2006.01); **B62L 3/02** (2006.01); **B62M 25/04** (2006.01); **B62M 25/08** (2006.01); **F16K 11/078** (2006.01); **F16K 25/00** (2006.01); **F16K 47/02** (2006.01)

CPC (invention and additional information)

B62M 25/08 (2013.01); **B62M 25/04** (2013.01); Y10T 74/20287 (2013.01); Y10T 74/20438 (2013.01)

Citation (applicant)

- US 5470277 A 19951128 - ROMANO ANTONIO [IT]
- IT TO000540 A

Citation (search report)

- [DX] US 5470277 A 19951128 - ROMANO ANTONIO [IT]
- [X] US 5653649 A 19970805 - WATARAI ETSUYOSHI [JP]
- [A] US 5479776 A 19960102 - ROMANO ANTONIO [IT]

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

EPO simple patent family

EP 1264765 A1 20021211; EP 1264765 B1 20040721; AT 271491 T 20040815; CN 100387485 C 20080514; CN 1390741 A 20030115; CN 1807180 A 20060726; CN 1807180 B 20111123; DE 60200771 D1 20040826; DE 60200771 T2 20050804; ES 2225694 T3 20050316; IT TO20010555 A1 20021209; JP 2003072670 A 20030312; JP 4475860 B2 20100609; TW I220136 B 20040811; US 2003019712 A1 20030130; US 6698567 B2 20040302; US RE43501 E 20120710

INPADOC legal status

2018-08-31 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20180522
- Year of fee payment : 17

2018-08-31 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20180525
- Year of fee payment : 17

2018-07-31 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20180529
- Year of fee payment : 17

2018-07-31 [PGFP ES] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : ES
- Payment date : 20180601
- Year of fee payment : 17

2018-05-25 [REG FR PLFP] FEE PAYMENT

- Year of fee payment : 17

2017-05-25 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 16

2016-05-30 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 15

2008-05-30 [PG25 GB] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GB
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20070531

2008-01-30 [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20070531

2008-01-02 [PG25 PT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : PT
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20041221

2006-05-25 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20060525
- Year of fee payment : 5

2006-02-22 [REG IE MM4A] PATENT LAPSED

2005-07-13 [26N] NO OPPOSITION FILED
- Effective date : 20050422

2005-06-03 [ET] FR: TRANSLATION FILED

2005-05-31 [PG25 CY] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CY
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050531

2005-05-31 [PG25 IE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IE
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20050531

2005-05-31 [PG25 LU] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LU
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20050531

2005-05-31 [PG25 MC] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : MC
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20050531

2005-03-16 [REG ES FG2A] DEFINITIVE PROTECTION
- Document : ES 2225694 T3

2005-01-31 [REG CH PL] PATENT CEASED

2005-01-03 [NLV1] NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT

2004-10-21 [PG25 DK] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : DK
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20041021

2004-10-21 [PG25 GR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GR
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20041021

2004-10-21 [PG25 SE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20041021

2004-08-26 [REF] CORRESPONDS TO:
- Document : DE 60200771 P 20040826

2004-08-25 [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND

2004-07-30 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2004-07-21 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2004-07-21 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Countries : RO

2004-07-21 [REG GB FG4D] EUROPEAN PATENT GRANTED

2004-07-21 [PG25 AT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : AT
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 BE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : BE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 CH] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CH
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 FI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : FI
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 LI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LI
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 NL] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : NL
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-07-21 [PG25 TR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : TR

- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20040721

2004-01-28 [17Q] FIRST EXAMINATION REPORT
- Effective date : 20030724

2003-09-03 [AKX] PAYMENT OF DESIGNATION FEES
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2003-09-03 [AXX] PAYMENT OF EXTENSION FEES
- Payment date : 20030520
- Countries : RO

2003-07-16 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20030520

2002-12-11 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2002-12-11 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI